

TABLE 4: GP IIb / IIIa INHIBITORS AS ADJUNCTIVE TREATMENT TO THROMBOLYTIC THERAPY IN ACUTE MYOCARDIAL INFARCTION

TRIAL	DRUG	N	INCLUSION CRITERIA	PATIENT SUMMARY	OUTCOME
TAMI 8 [117]	m7E ₃ FAB	70	<p>Patients 18-76 yrs < 6hrs of AMI onset with:</p> <p>ST segment elevation ≥ 0.1mV in 2 contiguous leads or in the presence of LBBB, had primary ST segment changes in the inferior or anterior leads.</p>	<p>10 to control; 60 to m7E₃ Fab (increasing doses).</p> <p>All received 100mg of rt.-PA (60mg in 1 hr + 20mg for each subsequent 2 hrs).</p> <p>All received aspirin and heparin.</p> <p>Angiogram and revascularisation only performed if clinically indicated.</p> <p>Angiogram performed in 9 control and in 34 m7E₃Fab treated patients.</p>	<p>Incidence of recurrent ischaemic events was similar in both groups (2/10 vs 8/60 for m7E₃Fab).</p> <p>56% controls had culprit artery patency on angiogram vs 92% in m7E₃Fab treated patients.</p>
IMPACT-AMI [118]	EPTIFIBATIDE	180	<p>Patients 18-65 yrs (18-75 yrs in Grp 2) < 6hrs of AMI onset with:</p> <ol style="list-style-type: none"> ST segment depression in leads V1-V6 consistent with posterior current of injury. ST segment elevation ≥ 0.1mV in 2 inferior or anterior leads or in leads I and aVL or primary ST segment change in inferior or anterior leads with LBBB. 	<p>Randomised to Group 1 (increasing doses of integrilin or placebo bolus and continuous infusion) or Group 2 (highest dose of integrilin in grp 1 or placebo).</p> <p>All received up to 100mg wt adjusted accelerated alteplase.</p> <p>Integrilin given between 10 – 30 mins after initiation of alteplase.</p> <p>All received aspirin 325mg and heparin IV (APTT 2-2.5 the control).</p> <p>All had 90 min coronary angiography.</p>	<p>Primary end point of TIMI 3 flow: 66% in highest dose eptifibatide treated patients vs 39% for placebo (p=0.006).</p> <p>The groups had similar rates of composite end point (42% placebo vs 43% for highest dose eptifibatide treated patients) of death, reinfarction, stroke, percutaneous or surgical coronary revascularisation, or new in-hospital heart failure or pulmonary oedema.</p>
PARADIGM [119]	LAMIFIBAN	353	<p>Patients 21-75 yrs < 12 hrs of AMI onset with:</p> <p>ST segment elevation ≥ 1mm in 2 limb leads or ≥ 2mm in 2 contiguous precordial leads to be eligible for thrombolytic therapy.</p>	<p>Three parts: A, B and C.</p> <p>A: Patients received open labelled low dose (n=15) and high dose (n=15) lamifiban.</p> <p>B: Patients randomised to lamifiban (n=112) or placebo (n=61) bolus and infusion for 24 hrs.</p> <p>C: Patients randomised to lamifiban (N=94) or placebo (N=56) bolus and infusion for 48 hrs.</p> <p>At investigators discretion, patients received either wt adjusted accelerated rt.-PA (100mg / 90 mins; n=266) or streptokinase (1.5 million IU / 1 hr; n=85).</p> <p>All received aspirin and heparin.</p> <p>Only 34 patients had the 90 min angiogram.</p> <p>246/353 had angiogram during the hospitalisation.</p>	<p>No significant reduction in the primary efficacy outcome of angiographic, continuous ECG and clinical markers of reperfusion failure by hospital discharge or 30 days was observed with placebo and lamifiban.</p> <p>Platelet aggregation was inhibited in a dose dependent manner. 62.5% of placebo vs 80.1% of lamifiban group showed ECG evidence of reperfusion at 90 mins (p=0.005).</p>

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TIMI 14 [120]	ABCIXIMAB	888	<p>Patients 18-75 yrs with < 12 hrs of AMI onset with:</p> <p>ST segment elevation ≥ 0.1 mV in 2 contiguous ECG leads.</p>	<p>Two phases: Dose Finding (n=677) and Dose Confirmatory phases (n=211).</p> <p>During the Dose Finding Phase – alteplase 20 – 100mgs, streptokinase 500 – 1500 Ux10³ and abciximab 0.25 or 0.30 mg/kg bolus followed by infusion of 0.125µg/kg/min for 12hrs.</p> <p>During the Dose Confirmatory Phase – alteplase 50-100mgs and abciximab 0.25mg/kg bolus followed by 0.125µg/kg/min for 12hrs with either low dose or very low dose heparin.</p> <p>All received aspirin and heparin (except streptokinase at 1500 Ux10³)</p> <p>408 patients had evaluable angiogram at 60 mins and 791 patients at 90 mins.</p>	<p>From the pooled data TIMI 3 flow: 60 mins - 43% alteplase only group vs 72% (50mg alteplase + abciximab group) (p=0.0009).</p> <p>90 mins - 62% alteplase only group vs 77% (50mg alteplase + abciximab group) (p=0.01).</p> <p>No major differences were seen for the overall rates of mortality, recurrent MI and development of severe pump failure across the groups.</p>
SPEED [121]	ABCIXIMAB	351	<p>Patients ≥ 18 yrs with AMI < 6 hrs with:</p> <ol style="list-style-type: none"> ST segment elevation ≥ 1mm in 2 contiguous ECG leads. Eligible for PCI 	<p>Patients were randomised to r-PA (10+10U), r-PA (5+5U) + abciximab or abxcimab alone.</p> <p>Abciximab dose: 0.25mg/kg bolus + 0.125µg/kg/min for 12 hrs.</p> <p>All received aspirin and heparin.</p> <p>All had coronary angiography at 60 to 90 mins</p>	<p>TIMI 3 flow at 60-90 mins: 48% r-PA vs 62% r-PA + abxcimab vs 29% abciximab alone.</p>
INTRO AMI [122]	EPTIFIBATIDE	342	<p>Patients ≥ 18 yrs with AMI < 6 hrs with:</p> <ol style="list-style-type: none"> ST segment elevation ≥ 1mm in 2 limb leads. <p>Or</p> <ol style="list-style-type: none"> ST segment elevation ≥ 2mm in 2 contiguous precordial leads. <p>Or</p> <ol style="list-style-type: none"> Primary ST change in inferior or anterior leads with LBBB. 	<p>Patients were randomised into 8 different groups. All patients received low dose rt.-PA (25mg or 50mg) and eptifibatide (180µg/kg bolus or 180/90 µg/kg double bolus 30 mins apart, with infusion regimen of either 1.33 or 2.0 µg/kg/min).</p> <p>All patients received aspirin and heparin.</p>	<p>Maximum TIMI 3 flow at 60 and 90 mins observed for combination of low dose rt.-PA (50mg) with double bolus eptifibatide (180/90 + 1.33 µg/kg/min infusion) - 65% and 78% respectively.</p>

AMI = Acute myocardial infarction; ECG = Electrocardiogram; LBBB = Left bundle branch block

rt.-PA = Recombinant tissue plasminogen activator/Alteplase; r-PA = Reteplase; PCI = Percutaneous coronary intervention